

AMENDMENTS TO THE CLAIMS, INCLUDING STATUS OF ALL CLAIMS

In the Claims:

Please replace pending Claims 1 and 17 with amended Claims 1 and 17 as follows:

1. (Presently Amended) An air pathway clearance device for wear on the neck of a user, comprising:

a support member, said support member having an inner surface, an outer surface and a peripheral edge;

securing means, said securing means carried by said support member and said securing means enabling retention of said support member on the neck of the user;

retention means, said retention means enabling retention of said securing means relative to said support member;

sealing means, said sealing means carried by said support member proximate to said peripheral edge of said inner surface of said support member, said sealing means enabling substantially airtight positioning of said support member against the neck of the user, ~~and~~ said sealing means generally protruding from said inner surface of said support member, and said sealing means ~~thereby~~ defining an air compartment between said inner surface of said support member and the neck of a user;

at least one valve, said valve carried by said support member, wherein said valve enables the exit of air from said air

compartment between said inner surface of said support member and the neck of a user.

2. (Previously Presented) The air pathway clearance device of Claim 1, wherein said support member is generally arcuately shaped and is formed from substantially rigid material.

3. (Previously Presented) The air pathway clearance device of Claim 2, wherein said arcuate shape of said support member is adjustable.

4. (Previously Presented) The air pathway clearance device of Claim 1, wherein said support member is formed from substantially flexible material.

5. (Previously Presented) The air pathway clearance device of Claim 1, wherein said securing means is at least one strap and said retention means is hook and loop fastener.

6. (Previously Presented) The air pathway clearance device of Claim 1, wherein said securing means is at least one strap and said retention means is at least one buckle.

7. (Previously Presented) The air pathway clearance device of Claim 1, wherein said securing means is at least one strap and said retention means is at least one snap.

8. (Previously Presented) The air pathway clearance device of Claim 1, wherein said securing means is at least one strap and said retention means is at least clasp.

9. (Previously Presented) The air pathway clearance device of Claim 1, wherein said securing means is at least one strap and said retention means is at least one magnet.

10. (Previously Presented) The air pathway clearance device of Claim 1, further comprising a cushioning material carried by said support member.

11. (Previously Presented) The air pathway clearance device of Claim 10, wherein said cushioning material substantially surrounds said peripheral edge of said support member.

12. (Previously Presented) The air pathway clearance device of Claim 1, wherein said sealing means is a rubber gasket.

13. (Previously Presented) The air pathway clearance device of Claim 1, further comprising a means for measuring performance.

14. (Previously Presented) The air pathway clearance device of Claim 13, wherein said means for measuring performance is a valve.

15. (Previously Presented) The air pathway clearance device of Claim 13, wherein said means for measuring performance is electronic data collection instrumentation.

16. (Previously Presented) The air pathway clearance device of Claim 1, wherein said support member is formed from a plurality of linked segments.

17. (Presently Amended) A sleep apnea device for use on the neck of a user, comprising:

a neck cuff having a generally arcuate shape, a concave surface and a peripheral edge;

at least one strap carried by said neck cuff, said at least one strap having at least one strap fastener for securing the position of said neck cuff on the neck of the user;

a gasket, said gasket carried proximate to said concave surface of said neck cuff, and said gasket defining a sealed region between said concave surface of said neck cuff and the neck of a user;

at least one vacuum regulator, said vacuum regulator carried by said neck cuff, wherein said vacuum regulator permits a unidirectional flow of air from said sealed region.

18. (Previously Presented) The sleep apnea device of Claim 17, further comprising a generally resilient border substantially covering said peripheral edge of said neck cuff.

19. (Previously Presented) The sleep apnea device of Claim 18, further comprising a data collection port.

20. (Previously Presented) The sleep apnea device of Claim 17, further comprising a pressure generating device, said pressure generating device assisting the unidirectional flow of air through said at least one vacuum regulator.

21. (Withdrawn) The method of treating sleep apnea comprising the steps of:

a. obtaining a sleep apnea device having a support member with an inner surface, at least one strap carried by said support member, at least one gasket carried proximate to said inner surface of said support member, and at least one valve carried by said support member;

b. placing said sleep apnea device on the neck of a user with said inner surface of said support member proximate to the outer surface of the neck of a user;

c. securing said at least one strap around the neck of a user;

d. forming a generally airtight seal between said gasket and the neck of a user, thereby defining a substantially airtight zone;

e. creating a negative pressure within said substantially airtight zone;

f. utilizing a vacuum resulting from said negative pressure to maintain open air passages for the user.

22. (Withdrawn) The method of treating sleep apnea of Claim 21, wherein said negative pressure is created by allowing air to escape from said substantially airtight zone through said valve, in self-regulated response to respiratory movement of the soft tissues of the neck of the user.

23. (Withdrawn) The method of treating sleep apnea of Claim 21, wherein said placement of said support member on the neck of a user is along the mandibular area and on the clavicular area.

24. (Withdrawn) The method of treating sleep apnea of Claim 23, wherein said support member extends over the frontal neck of the user without exerting pressure on the carotid body.